

Patent claims

1. A device for applying liquid to a running web (B),
5 in particular for applying dyeing liquid to a textile web with a pile, said device comprising an application means (2) which is arranged above the web (B) and from which the liquid is delivered to the web (B), characterized in that the device is
10 configured in such a way that it can be alternately operated in injection mode, in which the liquid is delivered at high pressure to the volume of the web (B), or in pouring mode, in which the liquid is applied to at least one
15 surface of the web (B).
2. The device as claimed in claim 1, characterized in that a web guide means (3) is provided with which the web (B) is guided under the application means
20 (2).
3. The device as claimed in claim 2, characterized in that the distance between the application means (2) and the web guide means (3) is variable.
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4. The device as claimed in one of claims 1 through 3, characterized in that the application means (2) extends across the entire width of the web.
- 30 5. The device as claimed in one of claims 2 through 4, characterized in that the web guide means (3) extends across the entire width of the web.
6. The device as claimed in one of claims 2 through
35 5, characterized in that the application means (2) and the web guide means (3) are arranged approximately perpendicularly one above the other.
7. The device as claimed in one of claims 2 through

6, characterized in that the web guide means (3) is arranged such that it can be adjusted in height.

5 8. The device as claimed in one of claims 1 through 7, characterized in that the application means (2) comprises a liquid chamber (15) extending transversely with respect to the running direction of the web.

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9. The device as claimed in claim 8, characterized in that, at its base, the liquid chamber (15) has bores (19) whose cross section is smaller than the cross section of the liquid chamber (15).

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10. The device as claimed in claim 9, characterized in that the bores (19) communicate with an application slit (39) that extends transversely with respect to the running direction of the web (B).

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11. The device as claimed in claim 10, characterized in that, between the application slit (39) and those ends of the bores (19) opening into the latter, a baffle surface (30) is provided which is oriented obliquely with respect to the direction of flow of the liquid emerging from the bores.

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12. The device as claimed in claim 11, characterized in that the baffle surface (30) encloses an angle of approximately 45° with the direction of flow.

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13. The device as claimed in claim 11 or 12, characterized in that the area of the baffle surface (30) is divided into a plurality of channels (32) by means of mutually parallel webs (31).

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14. The device as claimed in claim 13, characterized

in that the number of channels (32) corresponds to the number of bores (19).

- 5 15. The device as claimed in one of claims 1 through 14, characterized in that means are provided with which the effective application length of the application slit (39) can be varied.
- 10 16. The device as claimed in claim 15, characterized in that the means comprise at least one shut-off slide (36) that can alternately be pushed laterally into the liquid chamber (15).
- 15 17. The device as claimed in one of claims 1 through 16, characterized in that the application means (2) has a separate application plate (18) on the side directed toward the web (B).
- 20 18. The device as claimed in claim 17, characterized in that the application plate (18) is articulated with a long edge on the application means (2) via a hinge (35) whose hinge axis (S) is oriented parallel to the longitudinal direction of the liquid chamber (15).
- 25 19. The device as claimed in one of claims 2 through 18, characterized in that the web guide means (3) comprises a flexible pressing element over which the web (B) is guided.
- 30 20. The device as claimed in claim 19, characterized in that the pressing element comprises a pneumatic support element (7).